

# COMPUTATIONAL ECONOMICS MAJOR, BS

Campus: NYC, Westchester

## MAJOR COMPLETION SUMMARY

Requirement	Credits
University Core Requirements	44
Major Requirements	60-62
Open Electives	7-17
<b>Total Credits</b>	<b>120</b>

## UNIVERSITY CORE REQUIREMENTS (44 CREDITS)

Code	Title	Credits
<b>University Core Courses</b>		
ENG 110	Composition	3
ENG 120	Critical Writing	4
ENG 201	Writing in the Disciplines	3-4
COM 200	Public Speaking	3
<i>Math Options</i>		
MAT 144	Introduction to Probability and Statistics for Economics	4-8
or MAT 131 & MAT 234	Calculus I and Introduction to Probability and Statistical Analysis	
or MAT 111 & MAT 134	Elementary Calculus I and Introduction to Probability and Statistics	
or MAT 104 & MAT 117	Finite Mathematics and Elementary Statistics	
CS 121	Introduction to Computer Science	4
or CIS 101	Introduction to Computing	
or CIS 103	Problem Solving Using Technology	
or CIT 110	Introduction to Information Technology	

## MAJOR REQUIREMENTS (60-62 CREDITS)

Code	Title	Credits
<b>Economics Core Courses</b>		
ECO 105	Principles of Economics: Macroeconomics	0-3
ECO 106	Principles of Economics: Microeconomics	0-3
ECO 230	Intermediate Macroeconomics	3
ECO 234	Intermediate Microeconomics	3
ECO 240	Quantitative Analysis and Forecasting	3-4
ECO 380	Mathematical Economics	3-4
ECO 385	Econometrics: Models and Organizations	3
ECO 389	Economic Data Analysis (R & Python)	3
<b>CS/CIT Core Courses</b>		
CIT 312	Introduction to Programming I	4
CIT 241	Database Management	4
CS 377	Mathematical Foundations of Machine Learning	4
CIT 380	Applied AI with Deep Learning	4
CS/CIT Electives		8
<b>Additional ECO or CS/CIT Electives</b>		
<b>Capstone Course</b>		
CS 489	Computational Economics Capstone	3